

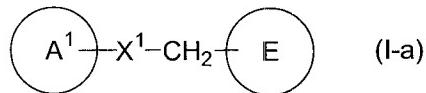
**AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application.

**Listing of Claims:**

1-2. (Canceled)

3. (Currently Amended) A compound represented by the formula (I-a), or a salt or a hydrate thereof:



wherein A<sup>1</sup> represents a 3-pyridyl group;

X<sup>1</sup> represents a group represented by the formula -C(=Y<sup>1</sup>)-NH-, wherein Y<sup>1</sup> represents an oxygen atom or a sulfur atom;

E represents a thienyl group;

with the proviso that A<sup>1</sup> optionally has 1 to 3 substituents selected from the following substituent groups a-1 and a-2, and that E has 1 or 2 substituents selected from the substituent groups ~~a-1 and a-2~~; a-1' and a-2';

<substituent group a-1>

substituent group a-1 represents the group consisting of: a halogen atom, a hydroxyl group, a mercapto group, a cyano group, a carboxyl group, an amino group, a carbamoyl group, a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl

group, a 5-to-10 membered heterocyclic group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkylidene C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkoxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkylthio group, a C<sub>2-6</sub> alkenylthio group, a C<sub>2-6</sub> alkynylthio group, a C<sub>3-8</sub> cycloalkylthio group, a C<sub>6-10</sub> arylthio group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylthio group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylthio group, a mono-C<sub>1-6</sub> alkylamino group, a mono-C<sub>2-6</sub> alkenylamino group, a mono-C<sub>2-6</sub> alkynylamino group, a mono-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino group, a mono-C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkenyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkynyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>1-6</sub> alkylcarbonyl group, a C<sub>1-6</sub> alkoxy carbonyl group, a C<sub>1-6</sub> alkylsulfonyl group, a group represented by the formula -C(=N-R<sup>a1</sup>)R<sup>a2</sup> (wherein R<sup>a1</sup> represents a hydroxyl group or a C<sub>1-6</sub> alkoxy group; R<sup>a2</sup> represents a C<sub>1-6</sub> alkyl group), and a C<sub>6-10</sub> aryloxy C<sub>1-6</sub> alkyl group and a 5-to-10 membered heterocyclic oxy C<sub>1-6</sub> alkyl group;

<substituent group a-2>

substituent group a-2 represents the group consisting of: a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a 5-to-10 membered

~~heterocyclic group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a 5-to-10-membered heterocyclic C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyoxy group, a C<sub>3-8</sub> cycloalkoxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkylthio group, a C<sub>2-6</sub> alkenylthio group, a C<sub>2-6</sub> alkynylthio group, a C<sub>3-8</sub> cycloalkylthio group, a C<sub>6-10</sub> arylthio group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylthio group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylthio group, a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkylthio group, a mono-C<sub>1-6</sub> alkylamino group, a mono-C<sub>2-6</sub> alkenylamino group, a mono-C<sub>2-6</sub> alkynylamino group, a mono-C<sub>3-8</sub> cycloalkylamino group, a mono-C<sub>6-10</sub> arylamino group, a mono-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino group, a mono-5-to-10 membered heterocyclic C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkenyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkynyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a N-5-to-10 membered heterocyclic C<sub>1-6</sub> alkyl N-C<sub>1-6</sub> alkylamino group, and a C<sub>6-10</sub> aryloxy-C<sub>1-6</sub> alkyl group and a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkyl group;~~

with the proviso that each group described in the substituent group a-2 has 1 to 3 substituents selected from the following substituent group b;

<substituent group b>

substituent group b represents the group consisting of: a halogen atom, a hydroxyl group, a mercapto group, a cyano group, a carboxyl group, an amino group, a carbamoyl group, a nitro group, a C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a 5-to-10 membered

~~heterocyclic group, a C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryloxy group, a 5 to 10 membered heterocycle oxy group, a C<sub>1-6</sub> alkylcarbonyl group, a C<sub>1-6</sub> alkoxy carbonyl group, a C<sub>1-6</sub> alkylsulfonyl group, a trifluoromethyl group, a trifluoromethoxy group, a mono-C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> arylamino group which optionally has one amino group or aminosulfonyl group and a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group which optionally has one amino group;~~

<substituent group a-1'>

substituent group a-1' represents the group consisting of: a halogen atom, a hydroxyl group, a mercapto group, a cyano group, a carboxyl group, an amino group, a carbamoyl group, a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkylidene C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkoxy group, a C<sub>6-10</sub> aryloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkylthio group, a C<sub>2-6</sub> alkenylthio group, a C<sub>2-6</sub> alkynylthio group, a C<sub>3-8</sub> cycloalkylthio group, a C<sub>6-10</sub> arylthio group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylthio group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylthio group, a mono-C<sub>1-6</sub> alkylamino group, a mono-C<sub>2-6</sub> alkenylamino group, a mono-C<sub>2-6</sub> alkynylamino group, a mono-C<sub>3-8</sub> cycloalkylamino group, a mono-C<sub>6-10</sub> arylamino group, a mono-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkenyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkynyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a C<sub>1-6</sub> alkylcarbonyl group, a C<sub>1-6</sub> alkoxy carbonyl group, a C<sub>1-6</sub>

alkylsulfonyl group, a group represented by the formula -C(=N-R<sup>a1</sup>)R<sup>a2</sup> (wherein R<sup>a1</sup> represents a hydroxyl group or a C<sub>1-6</sub> alkoxy group; R<sup>a2</sup> represents a C<sub>1-6</sub> alkyl group), and a C<sub>6-10</sub> aryloxy C<sub>1-6</sub> alkyl group;

<substituent group a-2'>

substituent group a-2' represents the group consisting of: a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkoxy group, a C<sub>6-10</sub> aryloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkylthio group, a C<sub>2-6</sub> alkenylthio group, a C<sub>2-6</sub> alkynylthio group, a C<sub>3-8</sub> cycloalkylthio group, a C<sub>6-10</sub> arylthio group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylthio group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylthio group, a mono-C<sub>1-6</sub> alkylamino group, a mono-C<sub>2-6</sub> alkenylamino group, a mono-C<sub>2-6</sub> alkynylamino group, a mono-C<sub>3-8</sub> cycloalkylamino group, a mono-C<sub>6-10</sub> arylamino group, a mono-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkenyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>2-6</sub> alkynyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group, and a C<sub>6-10</sub> aryloxy-C<sub>1-6</sub> alkyl group;

with the proviso that each group described in the substituent group a-2' has 1 to 3 substituents selected from the following substituent group b;

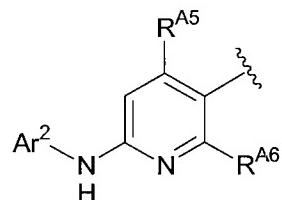
<substituent group b>

substituent group b represents the group consisting of: a halogen atom, a hydroxyl group, a mercapto group, a cyano group, a carboxyl group, an amino group, a carbamoyl group, a nitro

group, a C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryloxy group, a C<sub>1-6</sub> alkylcarbonyl group, a C<sub>1-6</sub> alkoxycarbonyl group, a C<sub>1-6</sub> alkylsulfonyl group, a trifluoromethyl group, a trifluoromethoxy group, a mono-C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> arylamino group which optionally has one amino group or aminosulfonyl group and a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group which optionally has one amino group;

with the proviso that the following is excluded:

a compound in which A<sup>1</sup> represents a group represented by the formula:



wherein R<sup>A5</sup> represents a hydrogen atom, a C<sub>1-6</sub> alkyl group or a trifluoromethyl group; R<sup>A6</sup> represents a hydrogen atom or a trifluoromethyl group; Ar<sup>2</sup> represents a phenyl group which optionally has a substituent; and X<sup>1</sup> represents a group represented by the formula -C(=O)-NH-.

4. **(Previously Presented)** The compound according to Claim 3, or the salt thereof, wherein A<sup>1</sup> represents a 3-pyridyl group, with the proviso that A<sup>1</sup> optionally has 1 to 3 substituents selected from the substituent group a-1 defined above.

5. (Currently Amended) The compound according to Claim 3, or the salt thereof, wherein A<sup>1</sup> represents a 3-pyridyl group, with the proviso that A<sup>1</sup> optionally has 1 to 3 substituents selected from the following substituent groups c-1 and c-2;

<substituent group c-1>

substituent group c-1 represents the group consisting of: a halogen atom, an amino group, a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a ~~5-to-10 membered heterocyclic group~~, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a ~~5-to-10 membered heterocyclic C<sub>1-6</sub> alkyl group~~, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a ~~5-to-10 membered heterocyclic C<sub>1-6</sub> alkoxy group~~, a mono-C<sub>1-6</sub> alkylamino group, a mono-C<sub>2-6</sub> alkenylamino group, a mono-C<sub>2-6</sub> alkynylamino group, a mono-C<sub>3-8</sub> cycloalkylamino group, a mono-C<sub>6-10</sub> arylamino group, a mono-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino group, a ~~mono-5-to-10 membered heterocyclic C<sub>1-6</sub> alkylamino group~~, a C<sub>1-6</sub> alkylcarbonyl group and a group represented by the formula -C(=N-OH)R<sup>a2</sup>, wherein R<sup>a2</sup> has the same meaning as defined above;

<substituent group c-2>

substituent group c-2 represents the group consisting of: a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a ~~5-to-10 membered heterocyclic group~~, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a ~~5-to-10 membered heterocyclic C<sub>1-6</sub> alkyl group~~, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a ~~5-to-10 membered heterocyclic C<sub>1-6</sub> alkoxy group~~, a mono-C<sub>1-6</sub> alkylamino group, a mono-C<sub>2-6</sub>

alkenylamino group, a mono-C<sub>2-6</sub> alkynylamino group, a mono-C<sub>3-8</sub> cycloalkylamino group, a mono-C<sub>6-10</sub> arylamino group, a mono-C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, and a mono-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino ~~group and a mono-5-to-10-membered heterocyclic C<sub>4-6</sub> alkylamino group;~~ with the proviso that each group described in substituent group c-2 has 1 to 3 substituents selected from the following substituent group d;

<substituent group d>

substituent group d represents the group consisting of: a halogen atom, a hydroxyl group, a carboxyl group, an amino group, a carbamoyl group, a C<sub>1-6</sub> alkoxy group, a mono-C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a mono-C<sub>6-10</sub> arylamino group that optionally having one amino group or aminosulfonyl group, a N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group optionally having one amino group, a cyano group, a C<sub>6-10</sub> aryl group, a 5-to-10-membered heterocyclic group and a C<sub>1-6</sub> alkoxycarbonyl group.

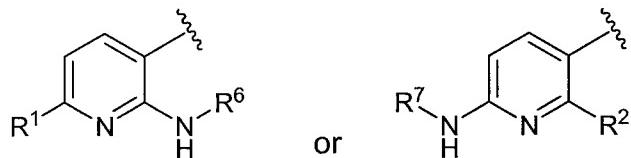
6. (**Previously Presented**) The compound according to Claim 5, or the salt thereof, wherein A<sup>1</sup> represents a group represented by the formula:



wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are the same as or different from each other and represent a substituent selected from the substituent groups c-1 and c-2 defined above.

7. **(Currently Amended)** The compound according to Claim 5, or the salt thereof,

wherein A<sup>1</sup> represents a group represented by the formula:

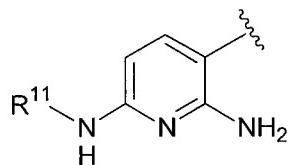


wherein R<sup>1</sup> and R<sup>2</sup> are the same as or different from each other and represent a substituent selected from the substituent groups c-1 and c-2 defined above; and

R<sup>6</sup> and R<sup>7</sup> are the same or different from each other and represent a hydrogen atom, a C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkyl group or a group represented by the formula -CHR<sup>8</sup>-(CH<sub>2</sub>)<sub>n1</sub>-R<sup>9</sup>, wherein R<sup>8</sup> represents a hydrogen atom, a carboxyl group or a C<sub>1-6</sub> alkoxy carbonyl group; R<sup>9</sup> represents a hydroxyl group, a carboxyl group, a carbamoyl group, a C<sub>3-8</sub> cycloalkyl group, a furyl group, a thienyl group, a pyrrolyl group, a pyridyl group, a triazolyl group, a tetrahydrofuryl group, a C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkoxy carbonyl group, a mono-C<sub>1-6</sub> alkylamino group, a di-C<sub>1-6</sub> alkylamino group, a phenyl group optionally having 1 to 3 substituents selected from the substituent group d defined above, a mono-C<sub>6-10</sub> arylamino group optionally having one amino group or an N-C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl-N-C<sub>1-6</sub> alkylamino group optionally having one amino group; and n1 represents an integer from 0 to 3.

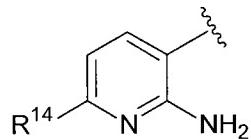
8. **(Previously Presented)** The compound according to Claim 3, or the salt thereof,

wherein A<sup>1</sup> represents a group represented by the formula:



wherein R<sup>11</sup> represents a hydrogen atom or a group represented by the formula -CHR<sup>12</sup>-  
(CH<sub>2</sub>)<sub>n2</sub>-R<sup>13</sup>, wherein R<sup>12</sup> represents a hydrogen atom or a carboxyl group; R<sup>13</sup> represents a carboxyl group or a phenyl group optionally having 1 to 3 substituents selected from the substituent group d defined above; and n2 represents an integer from 0 to 3.

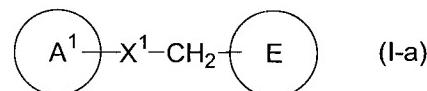
**9. (Previously Presented)** The compound according to Claim 3, or the salt thereof, wherein A<sup>1</sup> represents a group represented by the formula:



wherein R<sup>14</sup> represents a C<sub>1-6</sub> alkyl group having one C<sub>1-6</sub> alkoxy group.

**10-17. (Canceled)**

**18. (Currently Amended)** A compound represented by the formula (I-a), or a salt thereof:



wherein A<sup>1</sup> represents a 3-pyridyl group, wherein optionally has 1 to 3 substituents selected from the following substituent groups c'-1 and c'-2;

<substituent group c'-1>

substituent group c'-1 represents the group consisting of: an amino group, a C<sub>1-6</sub> alkyl group and a mono-C<sub>1-6</sub> alkylamino group; and

<substituent group c'-2>

substituent group c'-2 represents the group consisting of: a C<sub>1-6</sub> alkyl group and a mono-C<sub>1-6</sub> alkylamino group;

with the proviso that each group described in substituent group c'-2 has 1 to 3 substituents selected from the following substituent group d';

<substituent group d'>

substituent group d' represents the group consisting of: a halogen atom, a hydroxyl group, a cyano group, a carboxyl group and a C<sub>1-6</sub> alkoxy group;

X<sup>1</sup> represents a group represented by the formula -C(=Y<sup>1</sup>)-NH-;

Y<sup>1</sup> represents an oxygen atom or a sulfur atom;

wherein E represents a thienyl group, wherein E has 1 or 2 substituents selected from the following substituent groups e-1 and e-2;

<substituent group e-1>

substituent group e-1 represents the group consisting of: a halogen atom, a hydroxyl group, a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>6-10</sub> aryl group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkylidene C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyoxy group, a C<sub>6-10</sub> aryloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a 5-to-10 membered heterocyclic C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> arylthio group, a C<sub>6-10</sub> alkylthio group, a C<sub>6-10</sub> arylsulfide group, a C<sub>6-10</sub> alkylsulfide group, a C<sub>6-10</sub> arylsulfonyl group, a C<sub>6-10</sub> alkylsulfonyl group, a C<sub>6-10</sub> arylsulfone group, a C<sub>6-10</sub> alkylsulfone group, a C<sub>6-10</sub> arylsulfonate group, a C<sub>6-10</sub> alkylsulfonate group, a C<sub>6-10</sub> arylsulfonamide group, a C<sub>6-10</sub> alkylsulfonamide group, a C<sub>6-10</sub> arylsulfonimide group, a C<sub>6-10</sub> alkylsulfonimide group, a C<sub>6-10</sub> arylsulfonate ester group, a C<sub>6-10</sub> alkylsulfonate ester group, a C<sub>6-10</sub> arylsulfonamide ester group, a C<sub>6-10</sub> alkylsulfonamide ester group, a C<sub>6-10</sub> arylsulfonimide ester group, a C<sub>6-10</sub> alkylsulfonimide ester group.

$\text{C}_{1-10}$  aryl  $\text{C}_{1-6}$  alkylthio group, a mono- $\text{C}_{6-10}$  arylamino group, a mono- $\text{C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkylamino group, a  $\text{N-C}_{6-10}$  aryl- $\text{N-C}_{1-6}$  alkylamino group, a  $\text{N-C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkyl- $\text{N-C}_{1-6}$  alkylamino group, and a  $\text{C}_{6-10}$  aryloxy  $\text{C}_{1-6}$  alkyl group and a 5-to-10-membered heterocycle-oxy- $\text{C}_{1-6}$ -alkyl group;

<substituent group e-2>

substituent group e-2 represents the group consisting of: a  $\text{C}_{1-6}$  alkyl group, a  $\text{C}_{2-6}$  alkenyl group, a  $\text{C}_{2-6}$  alkynyl group, a  $\text{C}_{6-10}$  aryl group, a  $\text{C}_{3-8}$  cycloalkyl  $\text{C}_{1-6}$  alkyl group, a  $\text{C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkyl group, a 5-to-10-membered heterocyclic  $\text{C}_{1-6}$ -alkyl group, a  $\text{C}_{1-6}$  alkoxy group, a  $\text{C}_{2-6}$  alkenyloxy group, a  $\text{C}_{2-6}$  alkynyloxy group, a  $\text{C}_{6-10}$  aryloxy group, a  $\text{C}_{3-8}$  cycloalkyl  $\text{C}_{1-6}$  alkoxy group, a  $\text{C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkoxy group, a 5-to-10-membered heterocycle- $\text{C}_{1-6}$ -alkoxy group, a  $\text{C}_{6-10}$  arylthio group, a  $\text{C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkylthio group, a mono- $\text{C}_{6-10}$  arylamino group, a mono- $\text{C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkylamino group, a  $\text{N-C}_{6-10}$  aryl- $\text{N-C}_{1-6}$  alkylamino group, a  $\text{N-C}_{6-10}$  aryl  $\text{C}_{1-6}$  alkyl- $\text{N-C}_{1-6}$  alkylamino group, and a  $\text{C}_{6-10}$  aryloxy  $\text{C}_{1-6}$  alkyl group and a 5-to-10-membered heterocycle-oxy- $\text{C}_{1-6}$ -alkyl group;

with the proviso that each group described in substituent group e-2 has 1 to 3 substituents selected from the following substituent group f;

<substituent group f>

substituent group f represents the group consisting of: a halogen atom, a hydroxyl group, a cyano group, an amino group, a nitro group, a  $\text{C}_{3-8}$  cycloalkyl group, a  $\text{C}_{1-6}$  alkoxy group, a  $\text{C}_{6-10}$  aryloxy group, a 5-to-10-membered heterocycle-oxy group, a  $\text{C}_{1-6}$  alkylcarbonyl group, a  $\text{C}_{1-6}$  alkoxy carbonyl group, a  $\text{C}_{1-6}$  alkylsulfonyl group, a mono- $\text{C}_{6-10}$  arylamino group, a trifluoromethyl group, a trifluoromethoxy group and a  $\text{C}_{1-6}$  alkyl group.

19. **(Canceled)**

20. **(Previously Presented)** The compound according to Claim 18, or the salt thereof, wherein X<sup>1</sup> represents a group represented by the formula -C(=O)-NH-.

21-22. **(Canceled)**

23. **(Currently Amended)** The compound according to Claim 18, or the salt thereof, wherein E represents a thienyl group, wherein E has one substituent selected from the following substituent groups g-1 and g-2;

## &lt;substituent group g-1&gt;

substituent group g-1 represents the group consisting of: a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a phenyl C<sub>1-6</sub> alkyl group, a furyl C<sub>1-6</sub> alkyl group, a thienyl C<sub>1-6</sub> alkyl group, a benzofuryl C<sub>1-6</sub> alkyl group, a benzothienyl C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a phenoxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a phenyl C<sub>1-6</sub> alkoxy group, a furyl C<sub>1-6</sub> alkoxy group, a thienyl C<sub>1-6</sub> alkoxy group, a pyridyl C<sub>1-6</sub> alkoxy group, and a phenoxy C<sub>1-6</sub> alkyl group and a pyridyloxy C<sub>1-6</sub> alkyl group;

## &lt;substituent group g-2&gt;

substituent group g-2 represents the group consisting of: a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a phenyl C<sub>1-6</sub> alkyl group, a furyl C<sub>1-6</sub> alkyl group, a thienyl C<sub>1-6</sub> alkyl group, a benzofuryl C<sub>1-6</sub> alkyl group, a benzothienyl C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a phenoxy group, a C<sub>3-8</sub>

cycloalkyl C<sub>1-6</sub> alkoxy group, a phenyl C<sub>1-6</sub> alkoxy group, a furyl C<sub>1-6</sub> alkoxy group, a thiienyl C<sub>1-6</sub> alkoxy group, a pyridyl C<sub>1-6</sub> alkoxy group, and a phenoxy C<sub>1-6</sub> alkyl group and a pyridyloxy C<sub>1-6</sub> alkyl group;

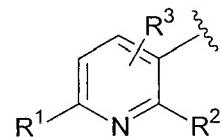
with the proviso that each group described in substituent group g-2 has 1 to 3 substituents selected from the following substituent group h;

<substituent group h>

substituent group h represents the group consisting of: a halogen atom, a hydroxyl group, a cyano group and a C<sub>1-6</sub> alkyl group.

24. (Previously Presented) The compound according to Claim 23, or the salt thereof, wherein E represents a 2-thienyl group, wherein E has one substituent selected from the substituent groups g-1 and g-2 defined above.

25. (Currently Amended) The compound according to Claim 23, or the salt thereof, wherein X<sup>1</sup> represents a group represented by the formula -C(=O)-NH-, and A<sup>1</sup> represents a group represented by the formula:



wherein R<sup>1</sup>, R<sup>2</sup> and R<sup>3</sup> are the same as or different from each other and represent a substituent selected from the following substituent groups e-1 and e-2; c'-1 and c'-2;

with the proviso that each group described in substituent group c'-2 has 1 to 3 substituents selected from the substituent group d';

<substituent group c-1>

~~substituent group c-1 represents the group consisting of: a halogen atom, an amino group, a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a 5 to 10 membered heterocyclic group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a 5 to 10 membered heterocyclic C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a 5 to 10 membered heterocyclic C<sub>1-6</sub> alkoxy group, a mono C<sub>1-6</sub> alkylamino group, a mono C<sub>2-6</sub> alkenylamino group, a mono C<sub>2-6</sub> alkynylamino group, a mono C<sub>3-8</sub> cycloalkylamino group, a mono C<sub>6-10</sub> arylamino group, a mono C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkylamino group, a mono C<sub>6-10</sub> aryl C<sub>1-6</sub> alkylamino group, a mono 5 to 10 membered heterocyclic C<sub>1-6</sub> alkylamino group, a C<sub>1-6</sub> alkylcarbonyl group and a group represented by the formula C(-N(OH)R<sup>a2</sup>) (wherein R<sup>a2</sup> has the same meaning as defined above);~~

<substituent group c-2>

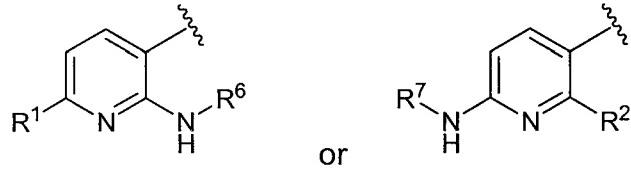
~~substituent group c-2 represents the group consisting of: a C<sub>1-6</sub> alkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>6-10</sub> aryl group, a 5 to 10 membered heterocyclic group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, a 5 to 10 membered heterocyclic C<sub>1-6</sub> alkyl group, a C<sub>1-6</sub> alkoxy group, a C<sub>2-6</sub> alkenyloxy group, a C<sub>2-6</sub> alkynyloxy group, a C<sub>3-8</sub> cycloalkyl C<sub>1-6</sub> alkoxy group, C<sub>6-10</sub> aryl C<sub>1-6</sub> alkoxy group, a 5 to 10 membered heterocyclic C<sub>1-6</sub> alkoxy group, a mono C<sub>1-6</sub> alkylamino group, a mono C<sub>2-6</sub> alkenylamino group, a mono C<sub>2-6</sub> alkynylamino group, a mono C<sub>3-8</sub> cycloalkylamino group, a~~

~~mono-C<sub>6</sub>-10 arylamino group, a mono-C<sub>3</sub>-8 cycloalkyl-C<sub>1</sub>-6 alkylamino group, a mono-C<sub>6</sub>-10 aryl-C<sub>1</sub>-6 alkylamino group and a mono-5 to 10 membered heterocyclic-C<sub>1</sub>-6 alkylamino group;~~  
~~with the proviso that each group described in substituent group e-2 has 1 to 3 substituents selected from the following substituent group d;~~  
~~<substituent group d>~~

~~substituent group d represents the group consisting of: a halogen atom, a hydroxyl group, a carboxyl group, an amino group, a carbamoyl group, a C<sub>1</sub>-6 alkoxy group, a mono-C<sub>1</sub>-6 alkylamino group, a di-C<sub>1</sub>-6 alkylamino group, a mono-C<sub>6</sub>-10 arylamino group that optionally has one amino group or aminosulfonyl group, a N-C<sub>6</sub>-10 aryl-C<sub>1</sub>-6 alkyl-N-C<sub>1</sub>-6 alkylamino group which optionally has one amino group, a cyano group, a C<sub>6</sub>-10 aryl group, a 5 to 10 membered heterocyclic group and a C<sub>1</sub>-6 alkoxycarbonyl group, and~~

E represents a 2-thienyl group, wherein E has one substituent selected from the substituent group g-1 or g-2 defined above.

26. **(Currently Amended)** The compound according to Claim 25, or the salt thereof, wherein A<sup>1</sup> represents a group represented by the formula:



wherein R<sup>1</sup> and R<sup>2</sup> have the same meanings as defined above; and

R<sup>6</sup> and R<sup>7</sup> are the same or different from each other and represent a hydrogen atom, or a C<sub>1</sub>-6 alkyl group, a C<sub>3</sub>-8 cycloalkyl group or a group represented by the formula -CHR<sup>8</sup>-(CH<sub>2</sub>)<sub>n+1</sub>-

~~R<sup>9</sup>, wherein R<sup>8</sup> represents a hydrogen atom, a carboxyl group or a C<sub>1-6</sub>-alkoxycarbonyl group; R<sup>9</sup> represents a hydroxyl group, a carboxyl group, a carbamoyl group, a C<sub>3-8</sub>-cycloalkyl group, a furyl group, a thienyl group, a pyrrolyl group, a pyridyl group, a triazolyl group, a tetrahydrafuryl group, a C<sub>1-6</sub>-alkoxy group, a C<sub>1-6</sub>-alkoxycarbonyl group, a mono-C<sub>1-6</sub>-alkylamino group, a di-C<sub>1-6</sub>-alkylamino group, a phenyl group which optionally has 1 to 3 substituents selected from the following substituent group d defined, a mono-C<sub>6-10</sub>-arylamino group which optionally has one amino group or an N-C<sub>6-10</sub>-aryl-C<sub>1-6</sub>-alkyl-N-C<sub>1-6</sub>-alkylamino group which optionally has one amino group; and n1 represents an integer from 0 to 3; d' below;~~

<substituent group d>

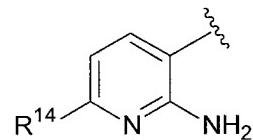
~~substituent group d represents the group consisting of: a halogen atom, a hydroxyl group, a carboxyl group, an amino group, a carbamoyl group, a C<sub>1-6</sub>-alkoxy group, a mono-C<sub>1-6</sub>-alkylamino group, a di-C<sub>1-6</sub>-alkylamino group, a mono-C<sub>6-10</sub>-arylamino group that optionally having one amino group or aminosulfonyl group, a N-C<sub>6-10</sub>-aryl-C<sub>1-6</sub>-alkyl-N-C<sub>1-6</sub>-alkylamino group optionally having one amino group, a cyano group, a C<sub>6-10</sub>-aryl group, a 5 to 10 membered heterocyclic group and a C<sub>1-6</sub>-alkoxycarbonyl group.~~

<substituent group d'>

substituent group d' represents the group consisting of: a halogen atom, a hydroxyl group, a cyano group, a carboxyl group and a C<sub>1-6</sub>-alkoxy group.

27. (Canceled)

28. (Previously Presented) The compound according to Claim 25, or the salt thereof, wherein A<sup>1</sup> represents a group represented by the formula:



R<sup>14</sup> represents a C<sub>1-6</sub> alkyl group having one C<sub>1-6</sub> alkoxy group.

29-35. (Canceled)

36. (Previously Presented) A pharmaceutical composition comprising the compound according to Claim 3, or the salt thereof; and a pharmaceutically acceptable carrier.

37. (Canceled)

38. (Withdrawn) A method for prevention or treatment of fungal infection comprising administering a pharmacologically effective amount of the compound according to Claim 3, or the salt thereof.

39-40. (Canceled)

41. (**Previously Presented**) A pharmaceutical composition comprising the compound according to Claim 18, or the salt thereof; and  
a pharmaceutically acceptable carrier.